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TITLE: OPTICAL COMMUNICATION EQUIPMENT
PUBN-DATE: April 12, 1996

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NAME SONY CORP COUNTRY N/A

APPL-NO: JP06251660
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INT-CL (IPC): H04B010/105, H04B010/10, H04B010/22, H04B010/14, H04B010/06
, H04B010/04, H04B010/08

ABSTRACT:

PURPOSE: To predict accurately the service life much different from between equipments and from the operating condition by providing an operating state monitor means of the laser diode and an arithmetic means predicting a deterioration state of the characteristic of the laser diode.

CONSTITUTION: The equipment is provided with a storage means 26 storing characteristic data of a laser diode 4, monitor means 21-23 monitoring the operating state of the laser diode 4 and providing an output of monitor results V2-V4, and an arithmetic processing means 24 predicting a time when the characteristic of the laser diode 4 is deteriorated up to a specified characteristic or predicting the deteriorated state of the characteristic based on the characteristic data and the monitor results V2-V4. Then the characteristic data of the laser diode 4 are stored in a storage means 26 and the time when the characteristic of the diode 4 is deteriorated to be a specified characteristic or the deteriorated state of the diode is predicted based on the characteristic data and the monitor results V2-V4 of the laser diode 4 to accurately predict the service life of the laser diode 4.

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Abstract Text - FPAR (1):

PURPOSE: To predict accurately the service life much different from between equipments and from the operating condition by providing an operating state monitor means of the laser diode and an arithmetic means predicting a deterioration state of the characteristic of the laser diode.

Abstract Text - FPAR (2):

CONSTITUTION: The equipment is provided with a storage means 26 storing characteristic data of a laser diode 4, monitor means 21-23 monitoring the operating state of the laser diode 4 and providing an output of monitor results V2-V4, and an arithmetic processing means 24 predicting a time when the characteristic of the laser diode 4 is deteriorated up to a specified characteristic or predicting the deteriorated state of the characteristic based on the characteristic data and the monitor results V2-V4. Then the characteristic data of the laser diode 4 are stored in a storage means 26 and the time when the characteristic of the diode 4 is deteriorated to be a

15	3296	current near15 (shut adj2 down)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:19
17	0	369/.ccls. and (((detect\$5 near25 (current or "rms")) and (current near10 ("rms" or root))) and (current near15 (shut adj2 down)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:19
16	53	((detect\$5 near25 (current or "rms")) and (current near10 ("rms" or root))) and (current near15 (shut adj2 down))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:19
18	6983	exponent\$5 near15 current	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:23
19	0	((detect\$5 near25 (current or "rms")) and (current near10 ("rms" or root))) and (current near15 (shut adj2 down)) and (exponent\$5 near15 current)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:24
20	0	369/.ccls. and (((((detect\$5 near25 (current or "rms")) and (current near10 ("rms" or root))) and (current near15 (shut adj2 down))) and (exponent\$5 near15 current))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:24
21	43	(current near15 (shut adj2 down)) and (exponent\$5 near15 current)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:38
22	20	eiji near2 tadokoro	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:39
23	9	hidekazu near2 kamon	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:40
24	26	(eiji near2 tadokoro) or (hidekazu near2 kamon)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:44
25	271924	sony	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:47
26	34856	abnormal near7 (state or operation)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:48
27	366	369/.ccls. and (abnormal near7 (state or operation))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:48
28	161799	laser near15 (measur\$5 or detect\$5 or read\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:49

29	477579	temperature near15 (measur\$5 or detect\$5 or read\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:49
30	19743	(laser near15 (measur\$5 or detect\$5 or read\$5)) and (temperature near15 (measur\$5 or detect\$5 or read\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 11:49
31	13	(369/\$.ccls. and (abnormal near7 (state or operation))) and ((laser near15 (measur\$5 or detect\$5 or read\$5)) and (temperature near15 (measur\$5 or detect\$5 or read\$5)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:02
32	110246	(service or aging or maintain\$5) near3 life	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:28
33	400	(abnormal near7 (state or operation)) and ((service or aging or maintain\$5) near3 life)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:03
34	4	369/\$.ccls. and ((abnormal near7 (state or operation)) and ((service or aging or maintain\$5) near3 life))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:21
35	17	"4747091"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:21
36	116349	(service or remain\$5 or maintain\$5) near3 life	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:28
37	5331	laser near7 life	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:28
38	881	((service or remain\$5 or maintain\$5) near3 life) and (laser near7 life)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:29
39	25	sony and (((service or remain\$5 or maintain\$5) near3 life) and (laser near7 life))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:35
40	16	hirashima near2 akira	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/05/05 12:35